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MR. BRYANT MATHER.[3]—Mrs. Mather in her 1952 paper on light microscopy[4] and in her 1953 paper on crushed limestone aggregates[5] reported the results of the petrographic examination of concrete from several mass concrete structures. A correlation was found between the amount of material finer than the No. 200 sieve in the aggregate and cracking of the structure which in turn correlated somewhat with the modulus of elasticity. With more material finer than the No. 200 sieve there was a higher elastic modulus and more cracking. It also appeared that the crystalline calcium hydroxide from the hydration of the cement was in smaller crystals. The net effect seemed to be that, where there was a smaller amount of fines in the aggregate, there were larger areas of apparently amorphous cement paste, a lower elastic modulus, and less cracking in the concrete.

[3] Engineer, Concrete Division, Waterways Experiment Station, Corps of Engineers, Jackson, Miss.

[4] Katharine Mather, "Applications of Light Microscopy in Concrete Research," Symposium on Light Microscopy, Am. Soc. Testing Mats., p. 51 (1952). (Issued as separate publication *ASTM STP No. 143.*)

[5] Katharine Mather, "Crushed Limestone Aggregates for Concrete," *Mining Engineering*, Am. Inst. Mining and Metallurgical Engrs. Tech. Publ. 3616 H, Oct., 1953, p. 1022.

Bookshelf

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The Testing and Inspection of Engineering Materials, 2nd Ed.

H. E. Davis, G. E. Troxell, and C. T. Wiskocil, McGraw-Hill Book Co., Inc., New York, N. Y., 431 pp., $6.50.

THIS book develops the concepts and principles of materials testing, discusses the many types of tests in current use, describes the equipment used for these tests, and covers the effect of the many variables upon the test results obtained. One of the principal aims of the book is to stress the nature of physical measurements and tests and to indicate the limitations of data derived from them. Precautions necessary to secure reliable test data and the influence of important variables on test results are indicated. Variability in measurements and materials is repeatedly pointed out, and a basis is laid for the planning of tests so as to give results within prescribed limits of error.

This second edition includes material on various new procedures, testing machines, and special testing devices, such as microhardness testers. Various new types of nondestructive tests, such as the use of ultrasonics and penetrants for detecting defects, are described. The material on electrical strain gaging has been considerably amplified. The technique of brittle coatings in stress analysis is adequately covered. Low-temperature impact tests and true stress—natural strain relations have been included because of their increasing significance. Many new figures have been added and new problems on columns, beams, helical springs, and electrical strain gages have been included.

American Standard on Butt-Welding Ends (ASA B16.5—1955)

American Society of Mechanical Engineers, 29 W. 39th St., New York 18, N. Y., $1:

IN 1953, the American Welding Society presented its proposal on Welding End Preparations to ASA Sectional Committee (B16) on Pipe Flanges and Fittings with the recommendation that it be considered as material for an American Standard. This proposal was expanded to include welding and preparations for valves and flanges as covered by the American Standard Steel Pipe Flanges and Flanged Fittings (B16.5) and the American Standard Steel Butt-Welding Fittings (B16.9). Also taken into consideration was the Pipe Fabrication Inst. Standard ES-1.

After two years of effort, which included the preparation of three draft documents, the approval of the Sectional Committee as well as the sponsor organizations (American Society of Mechanical Engineers, Heating and Piping Contractors National Assn., Manufacturers Standardization Society of the Valve and Fittings Industry) was obtained. The final approval of the American Standards Assn. was granted on September 14, 1955.

Reinforced Grouted Brick Masonry Field Inspectors Handbook

Clay Brick and Tile Assn., San Francisco, Calif., paperbound,

IN THE western earthquake area of the United States, particularly in California, it has been necessary, in brick masonry wall construction to use reinforcement of some kind. A relatively new and different type of construction is that known as Reinforced Grouted Brick Masonry, combining brick, mortar, grout, and reinforcing steel.

This system, known as RGBM, has changed not only the design of the building itself, as seen in high-strength piers, beams, and walls, but has also changed the art of brick construction. It is necessary to discard many of the common methods and techniques used by the masonry craftsmen, such as lightly buttered head joints and furrowed bed joints. Many of the artisans have been reluctant to accept the new methods and the inspector's job has increased in responsibility because of the need for insuring that proper methods are used.

This small, compact handbook should be very valuable and useful to engineers and inspectors. It contains a group of definitions of commonly used terms; sections on absorption of brick, construction joints, efflorescence, grout, masonry mortar, reinforcing steel, test specimens, inspection, and reference to building codes and ASTM standards. Simple illustrations should be very helpful in showing the inspector the desired conditions.

Abstracts of the Literature on Semiconducting and Luminescent Materials and Their Application—1954

The Electrochemical Society, Inc., John Wiley and Sons, Inc., New York, N.Y., 200 pp., paperbound, $5.

THIS compilation of abstracts, issued annually, serves a very useful purpose in bringing together in one place abstracts of papers appearing in many periodicals throughout the world. Such a service is very important to the continued healthy growth of this interesting and important new field.

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